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Tree Planting and Landscape Beautification in Nebraska

G. E. Condra

University of Nebraska-Lincoln

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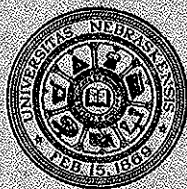
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TREE PLANTING *and* LANDSCAPE BEAUTIFICATION *in* NEBRASKA

Plan and Organization

BY G. E. CONDRA

BULLETIN II, CONSERVATION DEPARTMENT
of the
CONSERVATION AND SURVEY DIVISION
THE UNIVERSITY OF NEBRASKA



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Lincoln, Nebraska
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NEBRASKA WEEK

TREE PLANTING AND LANDSCAPE BEAUTIFICATION

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HIGGINS, JAY, Supervisor Nebraska National Forest, Halsey.
JACKSON, GEORGE, Secretary State Board of Agriculture, Lincoln.
KEENEY, H. G., President State Association of Farmers' Unions, Cowles.
KUSKA, VAL, Railroads, Omaha.
LONG, STANLEY D., Regent, University of Nebraska, Cowles.
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MOFFIT, LOYD, President, State Nurserymen's Association, Fremont.
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POTEET, MARCUS, American Legion, Lincoln.
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WATKINS, C. W., Extension Forester, University of Nebraska, Lincoln.
WESTERVELT, E. T., State Board of Control, Lincoln.
WIGGANS, C. C., Secretary State Park Board, Lincoln.
ZUMWINKLE, OTTO, Secretary State Manufacturers' Association, Lincoln.

*In memory of the pioneer planters, and in
recognition of those who beautify Nebraska
with flowers, vines, shrubs, and trees this
bulletin is dedicated.*

*Men who have left their
"footprints on the sands of time:"*

J. STERLING MORTON
ROBERT W. FURNAS
CHARLES E. BESSEY
C. S. HARRISON
ISAAC POLLARD
WILLIAM STOLLEY
PETER YOUNGERS
JULES AMI SANDOZ

PURPOSE

Nebraska Beautiful
in
Service, Nature, and Spirit.
He who plants the things beautiful,
plants youth, hope, joy, and love.
*"Gifts that grow are best;
Hands that plant are blest;
Plant! life does the rest!"*

TREE PLANTING AND LANDSCAPE BEAUTIFICATION IN NEBRASKA

PLAN AND ORGANIZATION

BY G. E. CONDRA

Introduction. This bulletin is intended to further the planting of flowers, vines, shrubbery, and trees in Nebraska. It is the result of the knowledge, experience, and planning of many persons interested in the development of the state, and is primarily an outline of the salient features of a plan that has been evolved to further planting in which the people, young to aged, participate because they purpose the things useful and beautiful and want to serve Nebraska.

In 1926, Governor Adam McMullen inaugurated what is now known as the Nebraska Plan of Forestation. This year, Governor Weaver recommends that planting be continued throughout the season favorable for it, and with special effort during the week of April 15 to 22, ending Arbor Day. He designates this most favorable time for planting in Nebraska as Tree Planting and Landscape Beautification Week. Also, he enlarges the State Committee on Forestation and gives it the title, State Committee on Tree Planting and Landscape Beautification, which means, that for the 1929 campaign, flowers, vines, and shrubs, as well as trees, are officially recognized in a comprehensive plan to develop landscape beauty and certain other benefits in Nebraska. Consequently, in the future the Nebraska plan will relate to more than trees. It will be known as the Nebraska Plan for Tree Planting and Landscape Beautification.

Work of State Committee. Governor Weaver on appointing this year's committee on Tree Planting and Landscape Beautification, said as follows:

1. This committee of public spirited citizens is selected to formulate a plan for Tree Planting and Landscape Beautification for Nebraska. It is to organize and select sub-committees to represent the groups, industries, and institutions of the state in which improvement can, and should be, made by planting trees, flowers, vines, and shrubbery.

2. The committee is to serve without expense to the state, its only reward being that of accomplishment. It is to consult with the State, University, and Federal departments that further forestry, forestation, and other lines of development along technical lines, and formulate for the citizens of the state generally, for their use, the results of research, survey, and experimentation relating to the selection, planting, cultivation, and care of flowers, shrubs, and trees.

3. The committee, assisted by the State Forester, and co-operating with the Extension Forester, representatives of the Nebraska National Forest and the U. S. Forest Service, is to outline the activities of a campaign to be carried out this spring during the week of April 15 to 22, here designated for that purpose and to be known as Nebraska Tree Planting and Landscape Beautification Week.

4. The plan and program as outlined by the committee is to be presented before an open meeting of citizens of the state for discussion, amendment, and adoption, after which, as adopted, it is to be followed throughout the year, but is to be emphasized during Tree Planting and Landscape Beautification Week. The committees and sub-committees selected are to serve in the active campaign with State Superintendent Charles W. Taylor as chairman for the campaign week, April 15 to 22, ending in Arbor Day.

5. According to our plan the Conservation and Survey Division of the University, through its departments of Conservation and State Forestry, is to prepare and publish for free distribution, a bulletin showing the purposes of the campaign, the methods to be followed, and the committees that are to function; the Extension Forester of the Agricultural College is to make available information regarding tree-distribution, and the best methods for planting and caring for trees and shrubs; and the State Superintendent is to furnish programs and other data for use by the schools during the campaign.

Nebraska's Contribution. Our state gave to the world Arbor Day, is recognized as the Tree Planters' State, and known on account of the Nebraska Plan of Forestation. Also, it is quite possible that Governor Weaver's proclamation for a week of tree planting and landscape beautification, ending in Arbor Day, may prove to be another worth-while move to be passed on to other states.

Nebraska has done well in planting in the past, but should do even better in the future because of the progress attained,

and because there is apparent need for planting for purposes that were not fully recognized in the past.

Protection and Beautification. It is now known that trees, shrubs, flowers, and vines can have many uses not heretofore generally recognized, as for protection and for aesthetic purposes, as follows:

1. Trees and shrubs form the habitat for birds and other animals; they afford shade and shelter for wild life, farm animals, and for man; they protect the land against erosion.
2. Vines add beauty to buildings, especially those of the colleges and churches, and cover ugly fences and walls.
3. Flowers, probably more than other plants, appeal to the aesthetic in man; they fill the small spaces with beauty.
4. Shrubs, grown as hedges, serve well to border lawns and playgrounds; they improve back grounds and modify vistas.
5. Trees, shrubs, vines, and flowers make our broad spaces more habitable; they environ the state with comfort and beauty and have value in education.

Nebraska Plan. This plan is gaining general recognition not only because it enlists the popular support of so many citizens and produces the desired results, but because it is workable with little expense to the state. It is based upon the experience of successful planters and the technical guidance of persons employed to serve in State, Federal, and University departments. The plan is scientific, practical, democratic, and effective in meeting the needs of Nebraska. Its features as they now stand are as follows:

1. There is a definite agreement between the State Committee, Conservation and Survey Division, Agricultural Experiment Stations, Extension Service, nurserymen, and the Bessey Nursery of the Nebraska National Forest regarding the part each is to assume in furthering tree planting and landscape beautification in the state.

2. The Bessey Federal Nursery is to produce trees to plant the national forests and for distribution by the Extension

Service for shelter belt and woodlot purposes on farms and ranches.

3. The Agricultural Experiment Stations are to grow stock for planting on state lands and on state institution grounds, or stocks for these purposes and for shelter belts and woodlots are to be purchased from the State Nurserymen's Association for distribution by the Extension Forester of the Extension Service.

4. The commercial field proper is to be occupied by the nurserymen.

5. The State and Federal departments are not to grow flowers, vines, and shrubs for general distribution.

6. The plans and objects to be accomplished for each year's campaign of planting are to be formulated by the State Committee in cooperation with the Conservation and Survey Division, Extension Forester, State Department of Agriculture, Supervisor of the Federal Nursery, and a representative of the U. S. Forest Service, and submitted for discussion and approval before one or more public meetings to be held at the Capitol, the Governor presiding.

7. The plans and objects as adopted at the public meetings are to be furthered by the State Committee during the year and actively supported by the committee and associated agencies during Tree Planting and Landscape Beautification Week. The program is to be educational and carried out as a public welfare measure.

Purpose of Campaign. Although there are important industrial factors and purposes in this year's state-wide campaign, relating to those who sell planting stocks and to those who plant for economic gain, it is held that the main object lies more in the environing and educational benefits obtained for the state than in industrial production and economic benefit. It is recognized, however, that there is apparent need for forestation for commercial production in our state, but it is believed that this phase of development should not be made the major issue this year.

The points to be emphasized in this year's campaign of planting in Nebraska relate to the aesthetic more than to

industry as such. They were formulated by the State Committee according to the terms of the Nebraska Plan, then considered in two public meetings presided over by the Governor and changed somewhat, resulting in a program intended to stress improvement by and for the following:

1. Homes, both country and town.
2. Public schools: Rural, consolidated, high schools, state teachers colleges, and the University of Nebraska.
3. Churches, with reference to their church buildings, grounds, parsonages, welfare homes, hospitals, cemeteries, schools, academies, and colleges.
4. Institutions under the State Board of Control.
5. Industrial grounds.
6. Railroad grounds.
7. Highways, tourist parks, gas stations, and hotels.
8. Fair grounds, county and state.
9. State Parks and State Recreational Grounds.
10. Cities and towns, with reference to their streets, parks, hospitals, cemeteries, golf grounds, ball parks, and other civic development.
11. Farms and ranches, with reference to shelter belts, woodlots, game protection, prevention of soil erosion, and planting for nut, post, pole, and lumber production.
12. Clubs and Societies — Secret and fraternal, patriotic, civic service, and educational.

Technical Information. We now know better than in the past, what and how to plant in the different areas of the state, and how to care for the plantings. This knowledge is based upon the studies and surveys that have been made of the soil, of the native and introduced stocks, of the climatic factors, and of the success and failure of the plantings.

The State Forester of the Conservation and Survey Division of the University studies the native forest and the introduced trees of the state in their relation to the soil and climatic conditions and advises regarding policies to be followed in forestation. The Extension Forester of the College of Agriculture serves technically in the selection, distribution, planting, cultivation, and care of trees and shrubs. The Chairman of the Department of Horticulture of the College of Agriculture and

the Landscape Gardener of the State University advise along the lines of their profession. Service of this kind is also available from many nurserymen in the state.

All nursery stocks in the state are inspected. They are said to be unusually free from insect pests and plant diseases. Inspection and the favorable condition apply also to the Federal stocks. Also, the out-of-state nurserymen are required to file inspection certificates with the State Department of Agriculture before their nurseries ship to Nebraska.

There are a number of Nebraska seed houses from which dependable service is assured, also a number of floriculturists and landscape gardeners with successful experience. The committee on technical information is as follows:

- H. J. McLaughlin, Secretary State Department of Agriculture, Chairman, Lincoln.
- C. C. Wiggans, Chairman Department of Horticulture, University of Nebraska, Lincoln.
- Frank A. Hayes, State Soil Survey and U. S. Bureau of Soils, Lincoln.
- C. W. Watkins, Extension Forester, University of Nebraska, Lincoln.
- E. A. Nieschmidt, State Forester, University of Nebraska, Lincoln.
- George A. Marshall, State Nurserymen's Association, Arlington.
- W. H. Dunman, Landscape Gardener, University of Nebraska, Lincoln.
- Ernst Herminghaus, Landscape Gardener and Garden Clubs, Lincoln.
- M. I. Evinger, Town Planning, University of Nebraska, Lincoln.
- Clarence Kittinger, Park Commissioner, Lincoln.
- F. D. Keim, Grass Expert, College of Agriculture, Lincoln.

Nebraska National Forests. There are two National Forestation projects in Nebraska, located in the Sandhill region. One of them is west of Halsey and the other is west of Snake River southwest of Valentine. These projects have demonstrated what can be done in forestation. They show a change from prairie to forest.

Planting started at Halsey 27 years ago and now an area of 14,000 acres is planted to trees, some of them being 30 to 40 feet in height. About 1,000 acres of the Niobrara Division of the Nebraska National Forest has been planted, making, with the Halsey forest, about 15,000 acres of Federal planting in Nebraska.

The forest reserve at Halsey is a successful forestation experiment and should be visited by many citizens from all

parts of the state that they may see and appreciate what has been done. It is the state's big demonstration in forestation, and has become a natural refuge for wild animals, including several deer.

The Bessey Nursery at the Halsey Forest Reserve has for several years supplied trees for ranch and farm planting, with the result that there are now many places in the state with attractive groves planted from this source.

Sources of Planting Stocks. One of the first points for consideration by the planter is that of stocks, i.e., what he is to plant and where to secure same. This relates to such as seeds, bulbs, ornamentals and shade trees, depending upon the needs.

There is a small source of supply of trees and shrubbery in the woodlands along our streams and on some rough lands, being quite accessible to some places to be planted. It is recognized, however, that more thought than usual should be given to selection from this source in order to determine that there is the proper kind and type of thing to be planted.

There are many commercial nurseries, widely distributed in Nebraska. These with stocks of variety constitute the most dependable source of planting stock. Also, as noted before, these stocks are inspected and certified by the State Department of Agriculture, and most of the nurserymen are in a position to serve technically in the selection of the things to be planted and to fill orders at once. A list of the Nebraska nurseries has been published by the State Department of Agriculture, by Secretary H. J. McLaughlin.

The Extension Service of the College of Agriculture distributes planting stock to farmers under the terms of the Clark-McNary law, at \$1.00 per hundred trees, which is a handling and packing charge. This service was started in 1926. Since that time 902,000 trees have been distributed to 4,000 farmers in Nebraska. This phase of forestation work has grown very rapidly. In 1926, 34,000 trees were distributed; in 1927, 186,000; in 1928, 682,000; and approximately 700,000 trees are to be distributed during April of this year.

The planting stock used for Extension Service distribution is secured from the U. S. Forest Service (Nebraska National

Forest) and from the Nebraska Nurserymen's Association. One year old broadleaf seedlings of American elm, Honey Locust, Catalpa, Green Ash, Cottonwood, Boxelder, Russian Olive, Caragaua (Siberian Pee Tree), Russian Mulberry, and Soft Maple are purchased from the nurserymen. Three year old transplants of Scotch pine, Austrian pine, Western Yellow pine, and Jack pine are secured from the U. S. Forest Service, i.e., from the Bessey Nursery at Halsey.

The purpose of the distribution work by the Extension Service is to encourage the planting of windbreaks and woodlots on farms and ranches. Specific instructions on planting and caring for trees is furnished by the Extension Forester. Application blanks for ordering for this distribution can be secured from the Agricultural Extension Service, College of Agriculture, Lincoln, Nebraska. These blanks are available January 1 each year and the stock is shipped to the planters about the middle of April.

Publicity. In order to bring the purposes of the planting campaign to the attention of all people of the state to enlist their cooperation, the following publicity committee was selected by the State Committee and approved at the public meetings:

Ole Buck, State Press Association, Chairman, Lincoln.
Colonel T. W. McCullough, Omaha Bee-News, Omaha.
Harvey Newbranch, Editor Omaha World-Herald, Omaha.
Frank L. Williams, Editor Nebraska State Journal, Lincoln.
James Lawrence, City Editor Lincoln Daily Star, Lincoln.
Glen Buck, Associate Editor Nebraska Farmer, Lincoln.
Frank O'Connell, Editor Out-door Nebraska, Gering.
Allen S. Stinson, State Senator, Niobrara.
Fuller L. Austin, Assistant State Superintendent, Lincoln.
E. M. Hosman, Secretary State Teachers' Association, Lincoln.
Dwight Griswold, State Senator, Gordon.
A. B. Wood, State Senator, Gering.
W. T. Diers, Radio; Rotary Propeller, Lincoln.
Elton Lux, Agricultural Extension Service, University of Nebraska, Lincoln.
G. E. Condra, to Prepare Bulletin for Campaign, Lincoln.
Editors of Nebraska Newspapers.
Representatives and Senators, State Legislature.

Photographs. It is to be expected that this year's planting will result in many beautiful settings that should bring pleasure to those who produce them and to those who see them. The outstanding examples of attainment in the different lines

should be photographed to show the progress of the year, and for display at fairs, educational meetings, and other places. Photographs of the exceptional places and results should be forwarded to the Conservation and Survey Division of the University for record, and for use in the campaigns of later years.

Recognition and Awards. No definite basis for recognition and awards for the most successful plantings has been agreed upon, although the subject has been discussed by the committee. It was decided, however, for this year, that church, school, farm, and other organizations furthering planting should extend recognition and awards within their groups. Also, the hope has been expressed that some of the service clubs like the Rotary, Kiwanis, and Lions, may become actively interested in this subject and participate in a state-wide program of awards in the future.

ORGANIZATION FOR PLANTING CAMPAIGN

It has required considerable time and thought to decide upon the planting that should be done in Nebraska this year and how to organize the groups that should participate. The situation has been studied rather fully, in a comprehensive way, both by the committee and in the open hearings, the first of which was held in Representative Hall and the second in the Senate Chamber at the Capitol. Among those who participated in the meetings at the Capitol were a number of representatives and senators from various parts of the state.

Although the members of the State Committee are to be active, like other citizens in the campaign of planting, the responsibility for securing action in the groups named and outlined in this report is delegated to the group committees appointed for that purpose. Each group committee is authorized to appoint to its membership such other persons and to perfect such organization as may seem best to do their work effectively. All that the State Committee asks is loyal support for the campaign and the accomplishment of results commensurate with the purposes of the campaign. Most members of the legislature have expressed willingness to further planting in their districts. State Superintendent Charles W. Taylor is to be the active chairman of the educational campaign. The program for planting, together with the group committees to be connected therewith is as follows:

HOME PLANTINGS

Beds of flowers; clumps, borders and hedges of shrubbery; grassy lawns; ornamental and shade trees, properly placed; and walks, are the outside furnishings of the home. These express the spirit of the occupant to the passer-by. Home plantings,—well-planned, well-developed, and well-kept, are environs of beauty and messages of culture.

The matter of home planting is rather complicated because it has to do with the selection of what to plant and the methods

to be followed in the planting, cultivation, and grooming of the plants to be used. It involves a knowledge of the soil, an acquaintance with flowers, grasses, vines, shrubs, and trees, and some experience in making things grow. The subject is an attractive one for observation and study by home builders. Fortunately there is much available information on the development of home settings, as through magazines, books, and catalogs, and from nurserymen, floriculturists, landscape gardeners, and others. The following points are raised as a preliminary questionnaire for those who are to beautify homes:

1. What kind of soil do you have? Do you know how to work it?
2. How are you to prepare the soil for lawn planting? What are you to sow and why? How are you to meet the dandelion pest?
3. In what places and for what purposes are vines used? What vines suitable for home planting are found in the native woods? How do you distinguish the following, and where do they serve best in planting: Clematis, rambler rose, English ivy, bittersweet, and wisteria?
4. What are the popular flowers? Are they grown from seed, root, or root bulb? What do you know of the forms of the following and their use: Iris, phlox, hollyhock, narcissus, gladiolus, rose, tulip, peony, lily, aster? What flowers should you use, and in what places and forms of planting?
5. What is shrubbery? Are there definite distinctions between flowers, vines, and shrubs? What are the situations and forms in which to plant shrubbery? Do you know the following and where they would serve best in your plans: Lilac, Japanese barberry, Wahoo bush, honey-suckle, snowballs, sumac, spirea?
6. Do you know the trees and what ones fit best into your plans? Can you distinguish between the pines, cedars, spruces, and firs? What broad-leaved trees are best for shade? Which as ornamentals? What species of trees are you to plant and why?

Due to the varying conditions as to location and the lack of time and capital of some owners, we need not expect all homes, country and town, to be made equally beautiful, yet it can be expected that they should all receive at least some attention and not allowed to become unsightly.

It would seem that farm organizations, women's clubs, and the civic service clubs should show special interest in home planting and home beautification by means of plants, cultivation, paint, and repair.

Home Committee:

Mary Ellen Brown, Home Demonstration Leader, University of Nebraska, Chairman, Lincoln.

J. D. Ream, Master Farmers' Grange, Broken Bow.

Mrs. J. E. Ackerman, President State Federation of Women's Clubs, Ainsworth.

Mrs. S. G. Tillett, State Organizer P. E. O., Alliance.

Albert Fickler, Representative State Legislature, Stanton.

W. C. Frahm, Representative State Legislature, Blue Hill.

August Wittler, Representative State Legislature, Wayne.

O. C. Randall, Representative State Legislature, Holdrege.

Dan L. Ough, Representative State Legislature, Benkleman.

Presidents and Secretaries of Women's Clubs.

Officers of Discussional Clubs.

Members of 4-H Clubs.

PUBLIC SCHOOLS *

By public schools as here used is meant rural schools, city and village schools, consolidated schools, high schools, State Teachers colleges, and the University of Nebraska.

A school without trees, flowers, shrubs, grass plot, and playground is not fully equipped for the educational work it is to perform. A school well-kept in paint and repair and set in a background of trees, flowers, and shrubs and with well-kept lawns and walks, presents a sight all like to behold and is a place where children like to go.

We insist that our schools be equipped with libraries, maps, and other helps, yet it is just as necessary that they have some trees, flowers, shrubs, vines, and a well kept lawn as a laboratory for nature study, geography, agriculture, art, language, and for ethical and aesthetic purposes.

Children who plant and care for trees and other plants

* Statement by John T. Link.

learn to love them. They feel responsibility in caring for them. They learn that patience, perseverance, and gentleness of spirit must be shown the tender plants. They learn attitudes and habits of mind that have lasting influence. They see in these plants the glory of the Maker of all good things, who gave these to His Children to enjoy and to appreciate.

We surround our jails and penitentiaries with beautiful lawns, flowers, and other beauty appeals, knowing and believing that these have a beneficial influence upon those behind the walls. Should not the environment of our schools, which aim to make jails and penitentiaries less necessary, have at least as much consideration as these? Should not the old time school of which the poet sings:

“Still sits the schoolhouse by the road,—
A ragged beggar sunning,—”

be a thing of the past, at least, in Nebraska?

There are schools in some of the cities where trees cannot be grown because of the limited space. However, even in such cases, the school and playgrounds could be surrounded with well-kept borders of hedge and the small spaces used for flower beds.

The interest of the students along lines of beautification can be aroused in various ways. Civic organizations and individual public spirited citizens could offer prizes for the best essay on the beautification of school grounds, or to the schools that show the greatest amount of improvement in the appearance of their school grounds. Memorial trees or groves could be planted and dedicated to men and women who have made contributions to education, such as authors, scientists, historians, artists, and noted educators.

Some high school grounds and those of the State Teachers Colleges are quite well planned and developed. The College of Agriculture of the University of Nebraska is claimed by many to be the best planted educational institution in the state. It stands as a model of beautification for other schools and colleges.

References with valuable suggestions in beautifying the school grounds are found in bulletins listed on page 29.

Public School Committee:

Charles W. Taylor, State Superintendent of Public Instruction,
Chairman, Lincoln.

E. M. Hosman, Secretary State Teachers' Association, Lincoln.
County Superintendents, serving as County Chairmen.

E. P. Wilson, Representative State Legislature, Chadron.

Mrs. W. W. Day, President State Parent-Teacher Association,
Lincoln.

J. F. Rohn, President State School Board Association, Fremont.

G. R. Currey, Representative State Legislature, Holbrook.

J. A. Amsberry, Representative State Legislature, Mason City.

Members School Boards and Boards of Education.

E. A. Burnett, Chancellor University of Nebraska, Lincoln.

U. S. Conn, President State Teachers College, Wayne.

Robert J. Elliott, President State Teachers College, Chadron.

George E. Martin, President State Teachers College, Kearney.

W. R. Pate, President State Teachers College, Peru.

Regents of the University of Nebraska.

City Superintendents.

High School Principals.

W. H. Rockwell, Representative State Legislature, So. Sioux City.

CHURCHES AND CHURCH PROPERTY *

The property included under churches, as here used, includes church buildings, parsonages, cemeteries, hospitals, welfare homes, schools, academies, and colleges.

Church grounds and buildings kept in good repair and paint speak well for any congregation, the more so if the environment affords an attractive setting. Many of our churches are along highways. They are seen by tourists and make impressions either favorable or unfavorable.

Shade and ornamental trees, shrubs, vines, and well-kept lawns help to make the church building and grounds more attractive. They bear silent testimony of the zeal and interest of the parishoners. They are, in a way, symbols of what the church stands for.

To allow a church to stand alone on the landscape without trees for shade, without protection and ornament or even surrounded by weeds is a treatment the church does not deserve, and is not in harmony with the ideals of those who support it. The appearance of the church building environment, that is, the church yard and its approaches, is a reflection of the devotion of those who attend the church.

We feel confident from past experience that the churches of the various denominations will do their part in helping to

* Statement by John T. Link.

make Nebraska more beautiful and that they will by example and precept inculcate love for that which is beautiful, not only in things spiritual but also in those that are external.

Many congregations have cemeteries where rest those of their faith who have passed on. The erection of tombstones is but one of the many ways in which the deceased are held in sacred memory. A well kept cemetery, free from weeds and rubbish and planted with shrubs, flowers, and grass, together with clean driveways, also portrays very vividly our affection for those of our beloved ones who sleep beneath the sod in "God's Acre."

The church schools in the state have taken up the matter of beautification of the school grounds along with the public schools. There are quite a number of such schools which together with the dwellings of the teachers are very attractive. We know that these schools will gladly cooperate in this work in the future as they have in the past.

There are a number of church hospitals and welfare homes in the state and they, like denominational schools and other institutions under such management, come naturally under church officials or their representatives for improvement and beautification.

The church organizations and the Y. M. and Y. W. C. A., through their officials, are urged to bring this matter of improvement and beautification of their property before their people in whatever way they may think best, asking for full cooperation in this campaign and in the future.

General Church Committee:

Bishop E. V. Shayler, Chairman, Omaha.
Lieutenant Governor George A. Williams, Fairmont.
Judge Harry DeWitt Landis, Seward.

Church Denomination Committees:

1. Adventist:

President P. L. Thompson, Union College, College View.
Rev. J. A. Deapen, Field Secretary, Grand Island.
Principal E. D. Kirk, Shelton Academy, Shelton.

2. Baptist:

Rev. H. Q. Morton, Field Secretary, Grand Island.
Rev. C. J. Pope, Student Pastor, University of Nebraska.
Rev. J. M. Welis, Pres. Grand Island College, Grand Island.

3. Catholic:
 - Father O'Conner, Havelock.
 - Father Osadick, Omaha.
 - Father Galvin, Spalding.
4. Christian:
 - President J. H. Weldon, Cotner College, Lincoln.
 - Rev. Ray Hunt, Student Pastor, University of Nebraska.
 - Rev. John G. Alber, Field Secretary, Lincoln.
5. Christian Science:
 - L. B. McCoun, Omaha.
 - Fred Stone, Lincoln.
 - J. D. Parks, Lincoln.
6. Congregational:
 - President E. B. Dean, Doane College, Crete.
 - Rev. W. A. Tyler, Lincoln.
 - Rev. F. W. Leavitt, Student Pastor, University of Nebraska.
7. Episcopal:
 - Bishop E. V. Shayler, Omaha.
 - Rev. L. W. McMillan, Student Pastor, University of Nebraska, Lincoln.
 - Principal Abba Willard Bowen, Brownell Hall, Omaha.
8. Friends:
 - Fred A. Marsh, Regent University of Nebraska, Archer.
 - Pres. O. W. Carroll, Nebraska Central College, Central City.
 - Principal Milo H. Crosbie, Nebraska Central College, Central City.
9. Lutheran:
 - Rev. H. Hillman, Field Secretary, Seward.
 - President H. F. Martin, Midland College, Fremont.
 - President Theodore M. Hansen, Dana College, Blair.
 - President A. T. Seashore, Luther College, Wahoo.
 - Professor John T. Link, Concordia College, Seward.
 - Rev. H. Erck, Student Pastor, University of Nebraska, Lincoln.
10. Methodist:
 - Bishop F. D. Leete, Omaha.
 - Pres. J. B. Schreckengast, Wesleyan University, Lincoln.
 - Rev. W. C. Fawell, Student Pastor, University of Nebraska, Lincoln.
11. Presbyterian:
 - Rev. John W. Pressley, Superintendent of Missions, Omaha.
 - President C. H. French, Hastings College.
 - Rev. D. R. Leland, Student Pastor, University of Nebraska.
 - Rev. L. J. Lewis, Field Secretary, Kearney.
12. United Brethren:
 - Rev. A. T. Vannice, State Superintendent, York.
 - President J. R. Obermiller, York College, York.
 - Rev. T. W. Steverson, Omaha.

Committee Young Women's Christian Association:

Edith Culver, General Secretary, Grand Island.
 Gladys Kensler, General Secretary, Beatrice.
 Helen Maxson, General Secretary, Norfolk.
 Mrs. Wendell Smith, Educational Secretary Lincoln.

Committee Young Men's Christian Association:

Professor Charles Fordyce, President State Committee, Lincoln.
 Charles Musselman, State Secretary Y. M. C. A., Omaha.
 W. A. Luke, General Secretary Lincoln Y. M. C. A., Lincoln.
 C. D. Hayes, Secretary Y. M. C. A., University of Nebraska.
 W. E. Thomas, Hi-Y Association, Omaha.

Note: There are a few other church organizations in the state from which we have not yet received lists of committeemen, as the Jewish Synagogue, Latter Day Saints, Mennonites, and the Nazarene. These are urged to select committees for the campaign.

STATE INSTITUTIONS UNDER THE STATE BOARD OF CONTROL

Most of the institutions under the Board of Control have been quite well planted. Some of their buildings, however, are not in good repair. All told there is opportunity for planting, and for new planting, especially to flowers and shrubs. The board, through its officers and employes, expresses a willingness and purpose to make as much improvement at the various institutions this year as their funds will permit. The general committee on these institutions is naturally formed of the Board of Control and the active heads of the institutions.

State Board of Control:

Mrs. Carrie Birss, Chairman, Lincoln.
 E. T. Westervelt, Lincoln.
 Harry S. Thorpe, Lincoln.

Sub-committee for State Institutions:

1. Hospitals for the Insane:
 Hastings—Dr. D. G. Griffith.
 Norfolk—Dr. G. E. Chariton.
 Lincoln—Dr. G. M. White.
2. Home for Dependent Children, Lincoln—Margaret E. Hay.
3. Hospital for Tuberculous, Kearney—Dr. S. T. Sidwell.
4. Orthopedic Hospital, Lincoln—Superintendent J. H. Matthais.
5. Soldiers' and Sailors' Home, Grand Island—J. J. Carlile.
6. Soldiers' Home, Milford—J. O. Moore.
7. Penitentiary, Lincoln—W. T. Fenton.
8. Men's Reformatory, Lincoln—A. W. Miller.
9. Institution for Feeble Minded, Beatrice—Dr. J. A. Burford.
10. School for Blind, Nebraska City—N. C. Abbott.
11. School for Deaf, Omaha—Frank W. Booth.
12. Girls' Training School, Geneva—Lena E. Ward.
13. Boys' Industrial School, Kearney—R. V. Clark.
14. Women's Reformatory, York—A. J. Chapman.
15. Home for Women, Milford—Evelyn Meyer.

INDUSTRIAL GROUNDS

As a whole the industries of Nebraska are not very well improved as to the attractiveness of their surroundings. Those in down-town districts lend to beautification only by the use of flowers, shrubs, and vines. Others, with sufficient offset and those with yet more open space, as in the outskirts of towns and cities, have adequate ground for lawns and trees.

One of the examples of an improved industrial plant is that of the Omaha Steel Works at Omaha, planned by Mr. Karl Vogel. This shows what can be accomplished and is therefore a model to be followed by other plants.

We are assured that the State Manufacturers' Association will further the beautification of industrial plants in Nebraska this year. A small committee has been selected with authority to enlarge its membership.

Industrial Ground Committee:

Otto Zumwinkle, Secretary Nebraska Manufacturers' Association,
Chairman, Lincoln.

Karl Vogel, Omaha Steel Works, Omaha.

G. F. Lillie, Manufacturers' Association, Fremont.

Robert Ferguson, President State Manufacturers' Association,
Lincoln.

W. W. Metz, Nebraska City.

RAILROAD PLANTINGS

The Nebraska railroads are taking an active part in the tree planting and landscape beautification program under the leadership of Hon. C. J. Ernst. Plans are being made by these companies to beautify their station grounds, stockyards, and shops by planting lawns, flowers, shrubbery, and trees. The Burlington is to plant several thousand trees as right-of-way snow fences and for beautification. Also, planting is to be done along the right-of-way, in cooperation with the farmers owning land adjoining, to serve as field shelter belts for the farm land.

Railroad Committee:

Hon. C. J. Ernst, Burlington Railroad, Chairman.

Arthur W. Larje, C. R. I. & P. R. R. Co., Chicago.

J. S. Butterfield, M. P. R. R. Co., St. Louis.

R. A. Smith, U. P. and St. J. & G. I. R. R. Co., Omaha.

Robert McGinnis, C. & N. W. R. R. Co., Lincoln.

HIGHWAYS, TOURISTS' PARKS, GAS STATIONS, AND HOTELS

These serve the travelling public. They are important places of contact between tourists and the state.

More attention should be given to road maintenance in which weeds and grass are cut, the maintenance grounds are kept in more attractive condition, and trees along the highway are not damaged by maintenance machinery. All this relates back to the responsibility vested in the County Commissioners, hence their appointment to the committee. It is urged in this connection that the Commissioners also further the planting on the Poor Farms, Court House grounds, and other county property under their administration.

Tourists' parks, like other parks and places serving the public, must be improved over the condition now prevailing at some places.

Our gas stations serve well in courteous sales. Also, they provide free air, free water, and free road information as to distance and routing, and clean the wind shield without the asking. All this is beauty in service and about all that can be asked in addition thereto is that the stations add to their present well kept condition a few flowers and other plants where there is room for them and it is feasible to do so.

Our hotels vary greatly in their condition or in lack of condition for service. Many of them are made beautiful and homelike by decoration, window boxes, and attractive entrances. Their clean beds, good food, and courteous service add cultural beauty to Nebraska.

Two conditions, aside from those enumerated above, should receive some measure of alleviation. They are the unsightly bill boards and the ugly town dumps found at places along our roads and highways.

Committee for Highways, Tourists' Parks, Gas Stations, and Hotels:

Hon. Arthur Bowerman, Ex-President State Good Roads Association, Chairman, Merriman.

Fred Putney, Secretary State Good Roads Association, Lincoln.

Oliver Stevenson, President State Good Roads Association, Nebraska City.

T. W. Bass, Chief State Gasoline Tax Collector, Lincoln.

W. E. McQuiston, Representative State Legislature, Gross.
B. A. George, Lincoln.
A. T. Lobdell, Chief Bureau of Roads and Bridges, Lincoln.
Vincent C. Haskell, representing a line of gas stations, Omaha.
Charles Sutherland, Secretary Nebraska Independent Oil Men's Association, Lincoln.
Ralph Bryant, President Nebraska Hotel Men's Association, Hastings.
County Commissioners.

STATE PARKS AND STATE RECREATION GROUNDS

Nebraska has three state parks, located at Nebraska City, Chadron, and Sycamore Springs, and three main Fisheries or Fish Hatcheries at or near Valentine, Benkleman, and South Bend. Also, there are four widely placed recreation areas at which camping and fishing are open to the public.

Improvement has been made, or is actively under way, at all of the above state-owned places. The parks are under the administration of the State Park Board. The fisheries and recreation grounds are under the State Department of Agriculture, with the Chief Game Warden in charge of their supervision.

Committee:

Hon. Emerson R. Pursell, President State Park Board, Chairman,
Broken Bow.
C. C. Wiggins, Secretary State Park Board, Lincoln.
Frank O'Connell, Chief Fish and Game Warden, Lincoln.
E. C. Keister, Representative State Legislature, Auburn.
C. A. Valder, Representative State Legislature, Tekamah.
Superintendents of State Parks.
Superintendents of State Fisheries.

FAIR GROUNDS

There are 83 of these in Nebraska, represented by County fairs and the State Fair. Their combined attendance in 1928 was about 1,657,000, of which 427,034 were at the State Fair.

Some of these fairs are in good condition of improvement and others are little improved. According to fair officials and the committee appointed, there will be much planting on the fair grounds this spring and marked improvement at their entrance gates.

Fair Grounds Committee:

George Jackson, Secretary State Board of Agriculture, Chairman, Lincoln.
Arthur Lamb, President State Board of Agriculture, Albion.

Henry Sunderman, President State-County Fair Association,
Madison.
Elliott R. Davis, Secretary State-County Fair Association,
Hastings.
H. W. Marshall, Nurserymen's Association, Arlington.
Presidents and Secretaries of County fairs.

CITIES AND TOWNS

This division covers municipally owned property and institutions, as streets, parks, hospitals, cemeteries, ball parks, golf courses, and the grounds of such as city halls, fire departments, police stations, water works, and libraries.

Most of these properties are under the administration of mayors and councilmen or commissioners and those selected by them. In places, city foresters and landscape gardeners are employed to plan and direct the work of planting for shade, shelter, and beautification. Good results have been attained in certain municipalities but in others much remains to be accomplished in this line. The movement for the town and city beautiful should be supported generally by service clubs, Boy Scouts, Camp Fire Girls, Women's clubs, Chambers of Commerce, and other organizations.

Committee:

E. M. Bair, City Commissioner, Chairman, Lincoln.
Byron R. Hastings, State Realtors' Association, Omaha.
M. I. Evinger, Town Planning, University of Nebraska, Lincoln.
E. C. Newland, Church Organizations, Chadron.
E. A. Vallier, Town Planning, Columbus.
T. L. Davis, Representative State Legislature, Weeping Water.
George Wolz, Chambers of Commerce, Fremont.
E. V. Binderup, State Association of Postal Employees, Minden.
Ernst Herminghaus, Garden Clubs, Lincoln.
Mayors, Town Councilmen, and City Commissioners.
Officers of the State Municipal League.
Officers of Rotary, Kiwanis, Knife and Fork, Professional Men,
Optomist, Cosmopolitan, and Lions clubs.
Officers of Women's Clubs.
Officers of Chambers of Commerce.

FARMS AND RANCHES

The plantings and improvements to be made here are shelter belts, woodlots, for game protection, prevention of soil erosion, and for economic production, such as posts, poles, nuts, and saw-timber.

Most of the trees released from the Federal nursery and

distributed by the Extension Forester are for shelter belt and woodlot purposes. Also many farms and ranches purchase directly from the nurseries for these uses, and although there are thousands of windbreaks and woodlots in Nebraska, there remain many ranches and farms where they have not been grown.

Song-birds, quail, pheasants, rabbits, and a number of other forms of wild life require protection by thickets and trees. The continuance of most of these animals in the state is dependent upon the natural protection afforded them. This means that trees and shrubs serve a more important purpose here than is generally recognized and that it will require much planting in different parts of the state to furnish the needed protection.

Soil erosion is active in many parts of Nebraska, especially on the hilly lands. The most effective means of checking the erosion and consequent loss of soil resources is by the plentiful use of cover grass crops, and particularly by growing bushy shrubbery in heads of gullies and canyons and along eroding water courses. This phase of tree planting should be used by land owners.

A few English walnuts and chestnuts are grown at places in the southeastern part of Nebraska. Hazelnut brush is native on the roughlands along the Missouri River and its tributaries from near Omaha southward. This brush, in addition to preventing erosion, affords some pasturage and some nuts. The black walnut occurs in many counties of the state, especially on the bottom lands with deep fertile soil, where there is a good economic return from the timber produced and usually a plentiful harvest of nuts. The walnut is also produced on the hilly areas of the southeastern counties. The burr oak and a few other trees yield good returns from native stands on the rough lands bordering the Niobrara, and along the valleys of numerous other streams in the state. These small areas of native forest should be managed largely for post and pole production. Lumber is sawn in a limited way from cottonwood, elm, and a few other kinds of trees in many parts of the state. The pines and cedars of the northwestern counties and at places along the western

course of the Platte and along the Lodgepole produce posts, poles, and some lumber from their distribution as a native forest.

A better management of the native forest, supplemented by commercial forestation, would add to the production and economic income of the state. The native forest of the state, with some protection, will expand naturally in and along the valleys and on the rough lands.

Farm and Ranch Committee:

H. G. Keeney, President State Farmers' Union, Chairman.
C. B. Steward, Nebraska Farm Bureau, Lincoln.
W. B. Banning, State Senator, Union.
C. H. Gustafson, Farm Organizations, Lincoln.
Clyde Griswold, State Senator, Gordon.
Chris Anderson, Farmers' Union, Spencer.
W. B. Barbour, Representative State Legislature, Scottsbluff.
C. W. Watkins, Extension Forester, University of Nebraska, Lincoln.
Ernest Peterson, Representative State Legislature, Axtell.
J. D. Ream, Master State Grange, Broken Bow.
C. W. Johnson, State Senator, Potter.
Harry Johnson, State Senator, Holdrege.
Henry Oelker, Representative State Legislature, Eustis.
County Extension Agents.

CLUBS AND SOCIETIES

SECRET AND FRATERNAL, PATRIOTIC, CIVIC SERVICE, EDUCATIONAL

The organizations under this classification include many persons interested in the planting campaign. Some of the organizations own property such as club buildings, recreation grounds, welfare homes, and golf courses. The various organizations of this classification, together with the persons officially connected with them, are requested to cooperate in ways most appropriate and best.

The planting and improvement of the club property probably will absorb only a small per cent of the activity of the members of the clubs and societies, leaving many persons to work in the various groups, as in home planting, and municipal planting. The secret and fraternal organizations can cooperate with the church and school groups. Also, the civic service and educational clubs can find outlet for activity that should bring lasting benefit to the state. The patriotic

organizations should outline methods and programs to be followed in planting memorial trees for soldiers.

We have not had time to closely organize the clubs and societies for this campaign. About all that can be done is to appeal to them for cooperation in ways they may think best. Fenton B. Fleming is general chairman of this group and the persons listed with the organizations following are members of the committee.

Secret and Fraternal Orders:

Ancient Order of United Workmen—Stanley D. Long.
Benevolent Protective Order of Elks—P. James Cosgrave.
Fraternal Order of Eagles—Ted Wolfenbarger.
Independent Order of Odd Fellows—Frank Corrick.
Knights of Columbus—E. G. Zimmerer.
Knights of Pythias—Bert A. George, William Love.
Maccabees—Harry Crubbie.
Masons—Orvill G. Andrews, Frank Patton, Jess D. Whitmore.
Modern Brotherhood of America—Mrs. L. Sterkel.
Modern Woodmen America—A. R. Talbott, Mrs. F. R. Torkelson.
P. E. O.—Mrs. Elizabeth Stevens.
Hoyal Highlanders—W. E. Sharp, O. B. Clark.
Tribe of Ben Hur—A. E. Olsen.
Woodmen of the World—Earl R. Stiles.

Patriotic Organizations:

Daughters of the American Revolution—Mrs. Adam McMullen.
Grand Army of the Republic—Commander O. C. Bell.
United Spanish War Veterans—Captain Otto Meyer, August Wagner.
Veterans of Foreign Wars—Major Marcus Poteet.
American Legion—Commander Ward Martin.
National Guard—General H. J. Paul, Major H. C. Stein.
Reserve Officers' Association—Colonel Phil Hall.

Civic Service Clubs:

Cosmopolitan—A. W. Boecking.
Kiwanis—Dan Cravens.
Knife and Fork—C. M. Sutherland.
Lions—L. E. Gunderson, Trev Gillaspie.
Optomists Club—Judge James R. Dean.
Professional Men's Club—Dr. Benjamin F. Bailey.
Rotary—Frank Tomson.

Young People's Educational Clubs:

Boy Scouts—W. J. Kent, Jack Wright, Kenneth Gleason, Cecil Herzberger.
Camp Fire Girls—Mrs. G. O. Smith, Ethel May Woods, and Mrs. Burdett Taylor Stoechr.
4-H Club—L. I. Frisbie.
Hi-Y Club—William E. Thomas, Harvey Smith.

REFERENCES

1. *The Forest, A Handbook for Teachers*, by D. Priscilla Edgerton. 72 pages. U. S. Dept. of Agriculture Miscellaneous Circular No. 98. Price 15c.
2. *Our Forests a National Problem*, by B. J. Rohan. Vol. 1, Exploratory Science Series, University of Michigan. For school use. C. C. Nelson Publishing Co., Appleton, Wisconsin. Profusely illustrated. \$1.00.
3. *The Forestry Primer*, by Charles Lathrop Pack. 32 pages, illustrated. American Tree Association, 1214 16th St., N. W., Washington, D. C. Free.
4. *Forest Almanac*, outlines State and National organizations and their activities. 370 pages. American Tree Association, 1214 16th St., N. W., Washington, D. C. \$1.00.
5. *Program for Observance of Forest Week*, contains songs, recitations and material suited for the occasion. U. S. Forest Service, Washington, D. C. Free.
6. *Arbor Day, its Purpose and Observance*, also contains suggestions and advice regarding Tree care. U. S. Department of Agriculture, Farmers Bull. 1492. Free.
7. *The Tree Planting Book*, published by the American Tree Association, 1214 16th N. W., Washington, D. C. Free.
8. *Arbor Day and its Observance*, contains suggestions for programs. American Forestry Association, Lenox Building 1525 L St., Washington, D. C. 2c.
9. *Forest Activities for Everybody*, contains recitations and helps for planning programs. American Forestry Association, Lenox Building 1525 L St., Washington, D. C. 2c.
10. *Needs and Development of the Nations Forestry Program*, a reprint of the first 16 pages of the Report of the Forester for 1928. U. S. Forest Service. Free.
11. *Nebraska National Forest*, Folder, general description of the two divisions of the Nebraska National Forest; with 12 illustrations. U. S. Forest Service. Free.
12. *Forests and Water in the Light of Scientific Investigations*, by Raphael Zon, Director Lakes States Forest Experiment Station, Deals with flood control and Water conservation. Supt. of Documents, Washington, D. C. 20c.
13. *Forests and Floods*, by Ward Shepard, U. S. Department of Agriculture circular 19. 5c.
14. *Floods, Forests and the Future*, by Charles Lathrop Pack. Contains articles by prominent men on flood control problems. American Tree Association, 1214 16th St., N. W., Washington, D. C. Free.
15. *American Forests and Forest Products*. Contains statistics regarding lumber, production, consumption, transportation, etc. U. S. Dept. of Agriculture Statistical Bull. No. 21. 45c.
16. *American and the World's Woodpile*, by Raphael Zon and William N. Sparhawk. Contains map of world showing forest districts and data as to production. U. S. Dept. of Agriculture, Circular No. 21. 5c.
17. *Handbook of Nebraska Trees*, by Raymond J. Pool. Edition exhausted. Copies may be found in schools and libraries. Describes all Nebraska trees. Was published by the Conservation & Survey Division. To be re-printed this year. 50c.